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(54) Title: CATALYST AND METHOD FOR DECOMPOSITION OF PERFLUORO-COMPOUND IN WASTE GAS

(57) **Abstract:** The present invention relates to a catalyst for the decomposition of exhausted perfluoro-compounds (PFCs) and a catalytic decomposition method of PFCs by using the same. More particularly, the present invention relates to a PFC decomposition catalyst prepared in such a manner that a surface of aluminum oxide is loaded with phosphorous (P) component at a aluminum/phosphorous mole ratio of 10 to 100 and a decomposition method of PFCs by using the catalyst. The present catalyst can be decomposed PFCs at 100% rate exhausted from semiconductor manufacturing industry and thus prevent the release of PFCs having high global warming potential into atmosphere.

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